

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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US EPA RECORDS CENTER REGION 5



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Mike Kosakowski (WH-527)
U.S. Environmental Protection Agency
401 M. Street S.W.
Washington D.C. 20460

Paul Bitter
U.S. EPA, Region V

Marc Hult
U.S. Geological Survey
702 Post Office Building
St. Paul, Minnesota 55101

Mike Hansel
Minnesota Pollution
Control Agency
1935 West County Road B-2
Roseville, Minnesota 55113

Gentlemen:

Attached hereto is an updated listing of all of the technical reports and studies which have been undertaken with regard to the environmental problems caused by Reilly Tar in St. Louis Park, Minnesota. I also list all of the studies which are proposed for the site. Please look this over and let me know if I have omitted any studies which you anticipate will be taken or which have been completed.

Sincerely,

Robert E. Leininger
Assistant Regional Counsel

bcc: Schaefer
Ullrich
Grimes
Schulteis/Walker

Leininger:6-6720:ddw:6/22/82:

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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Description of Former Reilly Site and Operations

1. Briefing Memo on Industrial Processes Used at Reilly Tar and Chemical Corporation at St. Louis Park, Minnesota by Steve Reed, MPCA (October 1, 1980, updated and finalized 4/82).
2. Student project (U of Minnesota) on the Creosote Problem in St. Louis Park by James F. Bailey (July 1, 1978).
3. Reilly memorandum from C.F. Leshar to P.E. White discussing Reilly's operating conditions (May 14, 1968).
4. Memorandum of Waste Disposal at Republic Creosoting Company and Reilly Tar and Chemical Company by Dale Wikre, Kyle Bishop, G.R. Koonce (April 22, 1970).
5. "Report on Investigation of Disposal of Wastes at the Republic Creosoting Company, St. Louis Park, Minnesota" by L.L. Kemps (May, 1938).
6. "Report on Waste Disposal at Republic Creosoting Company and Reilly Tar and Chemical Company, St. Louis Park" by G.R. Koonce, E.A. Pryzina (April, 1970).
7. Memorandum from J. Fred McCarthy-driller contracted by St. Louis Park (December 13, 1934).

Hydrogeologic Studies

8. "Transport of Coal Tar Derivatives in the Prairie du Chien-Jordan aquifer, St. Louis Park, Minnesota", by Marc Hult (11/80 project description, 8/81 progress report, 6/9/82 final draft submitted for review, 7/9/82 expected date for release).
9. "U.S.G.S. Open File Report.81-72", by Marc Hult (11/79).
10. U.S.G.S. report to Minnesota Department of Health: summary of information obtained on the location and structure of multi-aquifer wells. (2-6-79).
11. Study on the hydraulic and chemical effects of multi-aquifer wells, by Marc Hult (8/81).
12. "Preliminary Evaluation of Ground Water Contamination by Coal Tar Derivatives, St. Louis Park, Minnesota" by Marc F. Hult, Michael E. Schoenberg (October, 1979).
13. "Contamination of Ground Water by Coal Tar Derivatives, St. Louis Park Area, Minnesota--Conceptual Basis, Methodology and Preliminary Results of Physical Laboratory Models" by H.O. Pfannkuch (1979).

14. "Soil and Ground Water Investigation --Coal Tar Distillation and Wood Preserving Site, St. Louis Park, Minnesota" by Allan Gebhard (June, 1977).
15. "Hydrogeologic Study of the Republic Creosoting Site" by Gerald M. Sunde (July, 1974).

Environmental Contamination Studies

16. "Study of Groundwater Contamination in St. Louis Park, Minnesota", by Eugene A. Hickok & Assoc. (November, 1981).
17. GCA Contract #68-02-3168: soil cores taken from 25 locations to determine the presence of coal tar derivatives beneath the Reilly Tar site, St. Louis Park, Minnesota (5-27-82 to 8-30-82)
18. GCA Contract #68-01-6316: "Analysis of Environmental Samples for EPA Region V" (1-82 to 8-82)
19. Memorandum from Rolland Grabbe, Organics Section Chief, U.S.G.S. Denver Laboratory (September 4, 1980).
20. "Report of Soil Sampling--City of St. Louis Park" by Hubert H. Huls (June 5, 1979).
21. "Report of Well Water Survey--St. Louis Park, Minnesota" by Lawrence H. Breimhurst (August 3, 1978).
22. "Soil Contamination by Creosote Waste--A Quantitative Physical/Chemical Analysis of the Northern Portion of the former Republic Creosoting Site" by National Biocentric, Inc. (November 1, 1976).
23. "Report on Investigation of Phenol Problem in Private and Municipal Wells in St. Louis Park, Minnesota, Hennepin County" by Minnesota Department of Health (September 1974).
24. "An Assemblage of Analytical Data Regarding the Reilly Tar and Chemical Property, St. Louis Park, Minnesota" by St. Louis Park Health Department (August 1, 1972).
25. Letter from Sewer Board to H. McPhee, City of St. Louis Park Re: Discharge of Contaminated Pond Water to Sewer by Russell Susag (July 27, 1972).
26. Letter to H. McPhee, City of St. Louis Park, Re: Phenol Contamination of Wells in St. Louis Park by R. Burd (November 5, 1970).

27. "Preliminary Soils Investigation for Republic Creosoting Company" by J.S. Braun (October 13, 1969).

28. "Ground Water Investigation Program at St. Louis Park, Minnesota Progress Report 1" by Eugene A. Hickock (September 26, 1969).

Potential Pollutant Sources Other Than Reilly

29. U.S.G.S. Memorandum to M. Hult from E. Godsy: Bacterial Sampling at St. Louis Park, Minnesota (September 16, 1980).

30. Letter to E. Ross from M. Hult Re: Multi-aquifer wells (April 23, 1980).

31. Letter to MPCA Concerning Pentachlorophenol Contamination of the Androc property well in St. Louis Park, Minnesota by David Giese (April 19, 1979).

32. "Report on Investigation of Individual Water Supplies, St. Louis Park, Minnesota" by F.J. Kilpatrick, Paul B. Johnson (March 11, 1960).

Risk Assessment

33. "Potential Pathways of Human Exposure to Poly Nuclear Aromatic Hydrocarbons at the Abandoned Reilly Tar and Chemical Site", by K.W. Brown & Assoc., Inc. (November, 1981)

34. "Epidemiologic Investigation of Third National Cancer Survey Data for St. Louis Park, Edina, Richfield and the Minneapolis-St. Paul Standard Metropolitan Statistical Area with a Historical Review of St. Louis Park's Water Supply" by Kari H. Dusich (September, 1979).

35. "Health Implication of Polynuclear Aromatic Hydrocarbons in St. Louis Park Drinking Water" by MDH (November, 1978).

36. "Assessment of Possible Human Health Effects Resulting from the Contamination of the Former Republic Creosoting Site" by MDH (October, 1977).

Remedial Measures and St. Louis Park Restoration Projects

37. Superfund Task I: remove coal tar plug from well 23 and take samples every fifty feet; sample Prairie du Chien aquifer; analyze samples, inspect well bore with down-hole camera; dispose of coal tar pursuant to state and federal hazardous waste regulations; prepare plans and specification for abandonment and reconstruction of well 23 as a monitoring well. Eugene Hickok & Assoc. (6-14-82 to 8-1-82)

38. Superfund Task II (Well Abandonment): conduct file search and door to door search for location of wells; locate and obtain information on multi-aquifer wells; prioritize the wells as to flow and degree of contamination; develop a comprehensive well abandonment program. Eugene Hickok & Assoc. (6-14-82 to 8-1-82).

39. Superfund Task III (Water Treatability): assess the water quality of eleven municipal wells for PAH and other compounds; conduct bench tests on various water treatment alternatives; submit and implement plan for pilot tests on selected treatment systems; outline scope of work and develop plans and specifications for water treatment facilities (CH₂M-Hill selected as contractor 5-26-82; July 82 contract signed and work begins; task completed May 83).

40. Soils Treatability Study (Superfund): a study of the various alternative treatment methods for the "source areas" (peat, concentrated hydrocarbon layer, glacial drift); July 82 request for proposals published, September 82 study begins, August 83 study completed.

41. Soils Treatment: implementation of plans recommended by Soils Treatability Study. (January 1984 to June 1984).

42. Weston Contract: They will review the soils treatability study and the water treatability study as consultants for the on-scene coordinator. They also will prepare environmental assessments which will be coordinated with the treatability studies in order to satisfy the requirements of NEPA.

43. EMSL-Las Vegas: review of state analytical data; inspection and audit of state laboratories to determine the utility of state data.

44. "Examination of Cost Estimates for Three Tasks to be Completed for the Reilly Tar and Chemical Project, St. Louis Park, Minnesota," by Ecology and Environmental, Inc. (2/81)

45. "Proposal for Consultant Services--Drinking Water Treatment and Remedy Evaluation," by Eugene A. Hickok (April 11, 1980).

46. "Feasibility Study of Providing a Section of St. Louis Park with Minneapolis Water" by Naeem Qureshi (April 7, 1980).

47. "Summary Report on the City of St. Louis Park Activated Carbon Pilot Plant Study--July and October 1979" by Daryle A. Thingvold (January 11, 1980).

48. "Proposal for Analysis and Plan--Remedy of Ground Water Contamination St. Louis Park" by Eugene A. Hickok (January 1980).

49. Requests for Proposals of Study: Evaluate, and Prepare a Cost Analysis and Plan for the Remedy of Ground Water Contamination Resulting from Discharge of Industrial Chemicals at the Site of a Former Creosoting Plant by Edwin H. Ross (November 20, 1979).

50. "Louisiana Avenue Extension Report" by MDH, Soil Exploration of St. Paul, Braun Engineering, Serco (1978).
51. Letter to Richard Koppy, City of St. Louis Park, Re: Excavation of Contaminated Soil from Oak Park Village Area by Archie Carter (January 10, 1978).
52. "Soil Investigation-- Proposed Storm Sewer and Holding Ponds Near Highway 7 and Louisiana Avenue, St. Louis Park, Minnesota" by Donovan K. Stormoe (April 16, 1974).
53. Letter to G. Koonce, MPCA, in reference to storm water study performed by Orr-Schelen-Mayeron by John Badahich (November 15, 1973).
54. "Storm Water Study, Public Improvement No. 72-43 (Republic Creosoting Area)" by Wayne R. Long (August 6, 1973).
55. "Surface and Subsurface Ground Reclamation--Republic Creosoting Site" by Wayne R. Long (April 23, 1973).

Miscellaneous

56. Cell transformation study conducted on laboratory animals using samples of contaminated water from the Reilly Tar site, by Dr. Vincent Garry, University of Minnesota (9/81).
57. Study on the biodegradation of nitrogen compounds in a drift aquifer, by Dr. Wilfred Pereira, U.S.G.S. Arvada, Colorado (4/82).
58. Study on the biodegradation of phenolic compounds from the Reilly Tar and Chemical site, by Dr. Edward M. Godsy, U.S.G.S. Menlo Park, California. (12/81)
59. A reconnaissance for microbial activity at St. Louis Park, Minnesota, by Dr. Edward M. Godsy, U.S.G.S., Menlo Park, California (9-16-80).
60. "St. Louis Park Water Supply System" by Kari H. Dusich (1979).
61. "Water Resources Data for Minnesota, Water Year 1976" by U.S.G.S. (July 1977)
62. Transcript of Public Hearing for the Application of the City of St. Louis Park for an NPDES Permit to Discharge from a Wastewater Treatment System on the Former Republic Creosoting Site to Minnesota Creek conducted by MPCA (February 27, 1975).